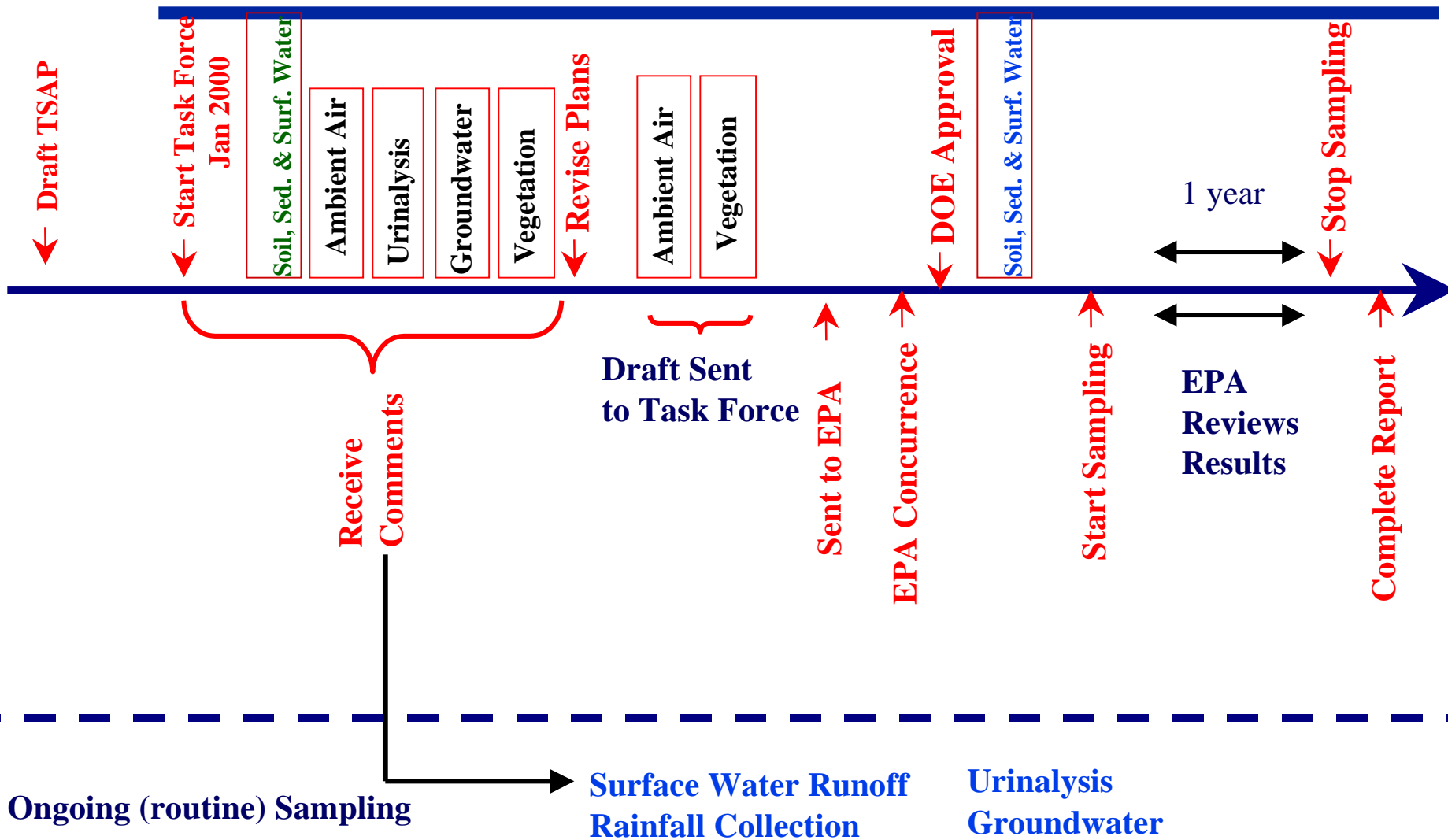


Task Force Sampling

Task Force Process





Structure of Presentation

- Ambient Air - Owen Hoffman presentation on Technical Basis for Siting Ambient Air Monitoring Stations, and Task Force discussion
- Groundwater/Urinalysis - Lab response to comments and Task Force discussion
- Other task force member current issues (as time allows)
 - IFEU report and workshop on April 2, 2001
 - NTLF operations during sampling



Structure of Presentation

- Three media to be discussed tonight:
 - Ambient Air
 - Groundwater
 - Urinalysis
- In each medium, three sections:
 - What was proposed in the Tritium Sampling and Analysis Plan.
 - What Berkeley Lab does in ongoing monitoring programs.
 - Task force and community comments, and the Lab's responses.



Comment Area: Groundwater

Tritium Sampling & Analysis Plan (TSAP)

- No groundwater sampling was originally included in the plan, since EPA feels that it has sufficient information for the Hazard Ranking System (HRS) without additional groundwater sampling.



Comment Area: Groundwater

Ongoing Laboratory Program(s)

- An extensive groundwater monitoring program has been in place since 1991. The Laboratory's Environmental Restoration Program identifies soil and groundwater contamination that may have resulted from past releases of contaminants to the environment. Currently 56 wells are monitored for tritium. Activities are closely coordinated with regulatory agencies which review and comment on submitted work plans, quarterly progress reports, and other required documents.



Comment Area: Groundwater

Ongoing Laboratory Program(s) (continued)

- Information is reported quarterly in Environmental Restoration reports and annually in the Laboratory's Site Environmental Report (SER), which is available at the UC Berkeley Main Library (Doe Library). The SERs are also available via the LBNL web site at http://www.lbl.gov/ehs/epg/html/env_protection.htm.



Comment Area: Groundwater

Task Force and Community Comments

1. Groundwater is not a significant pathway because groundwater within 4 miles of the site is not currently being used for drinking water, and no drinking water wells within 4 miles of the site have been closed due to site-related contamination. (U.S. EPA letter to City of Berkeley, 8-9-00).



Comment Area: Groundwater

Task Force and Community Comments (Continued)

2. Perform groundwater monitoring as suggested by the Regional Water Quality Control Board (RWQCB). Use as a pathway for the EPA HRS. (6/1, p. 7, 2 and 11; 6/1, p. 13, 4; 6/1, p. 89, 12 ff.; 6/1, p. 91, 3; 6/1, p. 108, 13 ff.; 4/25, p. 56, 14; 4/25, p. 57, 10 ff.)

The RWQCB is specifically concerned that tritium impacts to groundwater be included as part of EPA's Hazard Ranking System evaluation of risks to human health and the environment. (RWQCB letter to the Lab, 5-1-2000).

Add groundwater sampling in coordination with the RWQCB. (Franke/IFEU Report #1, B1, page 19).



Comment Area: Groundwater

Task Force and Community Comments - Lab Response

- Groundwater was not included in the EPA's original request for further sampling for the HRS. The groundwater exposure pathway is not significant to the HRS in these situations.
- There has been a systematic effort to investigate the groundwater here since 1991. The frequency and location of sampling is done in accordance with a schedule reviewed and approved by the RWQCB. Any groundwater contamination at the Lab has been identified and well characterized, and all results have been made available to regulatory agencies and the public.



Comment Area: Groundwater

Task Force and Community Comments - Lab Response

- The Board has clarified that it is not requiring Berkeley Lab to take more groundwater samples. (Environmental Restoration Quarterly Meeting with Regulators, 10/18/00).



Comment Area: Urinalysis

Tritium Sampling & Analysis Plan (TSAP)

None included or required by EPA for the Hazard Ranking System (HRS).

Ongoing Laboratory Program(s)

Weekly urine samples are taken from National Tritium Labeling Facility (NTLF) staff; guest users and maintenance staff are periodically sampled as appropriate, under the provisions of 10 CFR 835, Occupational Radiation Protection.



Comment Area: Urinalysis

Task Force and Community Comments

1. The Lab should perform bioassays (urinalysis) of individuals both on-site and at LHS. (4/25, p. 4, 22-24; 6/1, p. 87, 15 ff.; 4/25, p. 87, 14; 4/25, p. 90, 15)
 - Urinalysis is performed weekly for NTLF radiation workers, but is not required for non-radiation workers.
 - Nevertheless ... Berkeley Lab has received approval for a six-month urinalysis testing of volunteer employees (non-radiation workers) in two Lab buildings near the NTLF.
 - Sampling will be done in April - September, 2001